



SEQUENCE LISTING

<110> BuCK, Linda
Axel, Richard

<120> ODORANT RECEPTORS AND USES THEREOF

<130> 0575/38586-B/JPW/ADM

<150> US 08/129,079

<151> 1993-10-05

<160> 98

<170> PatentIn version 3.0

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cccatgtact tcttctcttg caacctctcc ttctgggaga tctgggtcac cacagcctgc      240
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35 40 45
Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu His Tyr Thr Val
50 55 60
Ile Met Ser Ser Trp Leu Cys Gly Leu Leu Val Leu Val Ser Trp Ile
65 70 75 80
Val Ser Ile Leu Tyr Ser Leu Leu Gln Ser Ile Met Ala Leu Gln Leu
85 90 95
Ser Phe Cys Thr Glu Leu Lys Ile Pro Gln Phe Phe Cys Glu Leu Asn
100 105 110
Gln Val Ile His Leu Ala Cys Ser Asp Thr Phe Ile Asn Asp Met Met
115 120 125
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Phe Tyr Xaa Tyr Phe Lys Ile Leu Cys Cys Ile Cys Ser Ile Ser Ser
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Ala Gln Gly Met Asn Lys Ala Leu Ser Thr Cys Ala Ser His Leu Ser
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Val Val Ser Leu Phe Tyr Cys Thr Gly Val Gly Val Tyr Leu Ser Ser
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Ile Cys Phe Thr Ser Ala Ser Ile Pro Lys Met Leu Val Asn Ile Gln
1          5          10          15
Thr Lys Asn Lys Val Ile Thr Tyr Glu Gly Cys Ile Ser Gln Val Tyr
          20          25          30
Phe Ser Tyr Ser Leu Glu Phe Trp Thr Thr Phe Phe Ser Thr Val Met
          35          40          45
Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Ser Xaa Tyr Thr Gly
          50          55          60
His His Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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65	70	75	80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	85	90	95
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	100	105	110
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	115	120	125
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr	130	135	140
Ser Tyr Ser Lys Ile Val Ser Ser Ile Arg Glu Ile Ser Ser Ser Gln	145	150	155
Gly Lys Tyr Lys Xaa Phe Ser Thr Cys Ala Ser His Leu Ser Val Val	165	170	175
Ser Leu Phe Tyr Ser Thr Leu Leu Gly Val Tyr Leu Ser Ser Ser Phe	180	185	190
Thr Gln Asn Ser His Ser Thr Ala Arg Ala Ser Val Met Tyr Ser Val	195	200	205
Val Thr Pro Met Leu	210		

<210> 15
 <211> 636
 <212> DNA
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> Clone: J2

<400> 15	
acctccacca ccattccaaa gatgctggta aatatacaca cccagagcaa tactatcacc	60
tatgaagact gtatttccca gatgtttgta ctcttggttt ttggagaact ggacaacttt	120
ctcctggctg tgatggccta tgatcgatat gtggctatct gtcaccact gtattacaca	180
gtcattgtga accaccgact ctgtatcctg ctgcttctgc tgcctgggt tgcagcatt	240
ttacatgcct ttttacagag cttaattgta ctacagttga ccttctgtgg agatgtgaaa	300
atccctcact tcttctgtga gctcaatcag ctgtcccaac tcacatgttc agacaacttt	360
ccaagtcacc tcacaatgca tcttgtacct gttatatttg cagctatttc cctcagtgg	420
atcctttact cttatttcaa gatagtgtct tccatacgtt ctatgtcctc agttcaaggg	480
aagtacaagg cattttctac atgtgcctct cacctttcca ttgtctcctt attttatagt	540

acaggcctcg ggggtgtacgt cagttctgct gtgatccgaa gctcacactc ctctgcaagt 600

gcttcgggtca tgtataactgt ggtcaccccc atgttg 636

<210> 16
<211> 212
<212> PRT
<213> Rattus sp.

<220>
<221> misc_feature
<223> Clone: J2

<400> 16

Thr	Ser	Thr	Thr	Ile	Pro	Lys	Met	Leu	Val	Asn	Ile	His	Thr	Gln	Ser
1				5					10					15	
Asn	Thr	Ile	Thr	Tyr	Glu	Asp	Cys	Ile	Ser	Gln	Met	Phe	Val	Leu	Leu
		20						25					30		
Val	Phe	Gly	Glu	Leu	Asp	Asn	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp
	35						40					45			
Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Tyr	Tyr	Thr	Val	Ile	Val	Asn
	50					55					60				
His	Arg	Leu	Cys	Ile	Leu	Leu	Leu	Leu	Leu	Ser	Trp	Val	Val	Ser	Ile
65				70						75					80
Leu	His	Ala	Phe	Leu	Gln	Ser	Leu	Ile	Val	Leu	Gln	Leu	Thr	Phe	Cys
			85						90					95	
Gly	Asp	Val	Lys	Ile	Pro	His	Phe	Phe	Cys	Glu	Leu	Asn	Gln	Leu	Ser
		100						105					110		
Gln	Leu	Thr	Cys	Ser	Asp	Asn	Phe	Pro	Ser	His	Leu	Thr	Met	His	Leu
		115					120						125		
Val	Pro	Val	Ile	Phe	Ala	Ala	Ile	Ser	Leu	Ser	Gly	Ile	Leu	Tyr	Ser
	130					135					140				
Tyr	Phe	Lys	Ile	Val	Ser	Ser	Ile	Arg	Ser	Met	Ser	Ser	Val	Gln	Gly
145					150					155					160
Lys	Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Ser	Ile	Val	Ser
			165						170					175	
Leu	Phe	Tyr	Ser	Thr	Gly	Leu	Gly	Val	Tyr	Val	Ser	Ser	Ala	Val	Ile
			180					185					190		
Arg	Ser	Ser	His	Ser	Ser	Ala	Ser	Ala	Ser	Val	Met	Tyr	Thr	Val	Val
	195						200					205			

Thr Pro Met Leu
210

<210> 17
<211> 646
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature
<223> clone: J4

<400> 17
cataggctat tcattctctg tcacacccaa tatgcttgtc aacttcctta taaagcaaaa 60
taccatctca taccttggat gttctataca gtttggctca gctgctttgt ttggaggtct 120
tgaatgcttc cttctggctg ccatggcgta tgatcgtttt gtagcaatct gcaaccact 180
gctttattca acgaaaatgt ccacacaagt ctgtgtccag ttggttgtgg gatcttatat 240
aggggggattt cttaatgcct cctcttttac cctttccttt ttttccttgt ccttctgtgg 300
accaaataga atcaatcact tttactgtga ttttgctccg ttagtagaac tttcttgcct 360
tgatgtcagt gttcctgatg ctgttacctc atttctgtgt gcctcagtta ctatgtcac 420
agtgtttatc atagccatct cctataccta taccctcacc accatcctga agatgcgttc 480
cactgagggt cgacagaaag cattctctac ctgcaacttc cacctcactg cagtcactct 540
gtgctatgga accatcacat tcattctatgt gatgcccaag tccagctact ccacagacca 600
gaacaagggtg gtgtctgtgt tttatatggt ggtgatcccc atgttg 646

<210> 18
<211> 215
<212> PRT
<213> Rattus sp.

<220>
<221> misc_feature
<223> Clone: J4

<400> 18

Ile Gly Tyr Ser Ser Ser Val Thr Pro Asn Met Leu Val Asn Phe Leu
1 5 10 15

Ile Lys Gln Asn Thr Ile Ser Tyr Leu Gly Cys Ser Ile Gln Phe Gly
20 25 30

Ser Ala Ala Leu Phe Gly Gly Leu Glu Cys Phe Leu Leu Ala Ala Met
35 40 45

Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn Pro Leu Leu Tyr Ser Thr
 50 55 60
 Lys Met Ser Thr Gln Val Cys Val Gln Leu Val Val Gly Ser Tyr Ile
 65 70 75 80
 Gly Gly Phe Leu Asn Ala Ser Ser Phe Thr Leu Ser Phe Phe Ser Leu
 85 90 95
 Ser Phe Cys Gly Pro Asn Arg Ile Asn His Phe Tyr Cys Asp Phe Ala
 100 105 110
 Pro Leu Val Glu Leu Ser Cys Ser Asp Val Ser Val Pro Asp Ala Val
 115 120 125
 Thr Ser Phe Ser Ala Ala Ser Val Thr Met Leu Thr Val Phe Ile Ile
 130 135 140
 Ala Ile Ser Tyr Thr Tyr Ile Leu Ile Thr Ile Leu Lys Met Arg Ser
 145 150 155 160
 Thr Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Thr Ser His Leu Thr
 165 170 175
 Ala Val Thr Leu Cys Tyr Gly Thr Ile Thr Phe Ile Tyr Val Met Pro
 180 185 190
 Lys Ser Ser Tyr Ser Thr Asp Gln Asn Lys Val Val Ser Val Phe Tyr
 195 200 205
 Met Val Val Ile Pro Met Leu
 210 215

<210> 19
 <211> 481
 <212> DNA
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> Clone: J7

<400> 19
 catctgcaag cccctgcact acaccaccat catgaataac cgagtgtgca cagttctagt 60
 cctctcctgt tggtttgctg gcctgttgat catcctccca cctcttggtc atggcctcca 120
 gctggagttc tgtgactcca atgtgattga tcattttggc tgtgatgcct ctccaattct 180
 gcagataacc tgctcagaca cggtatttat agagaaaatt gtcttggtt ttgccatact 240
 gacactcatc attactctgg tatgtgttgt tctctcctac acatacatca tcaagaccat 300
 tttaaagttt ccttctgctc aacaaagaaa aaaggccttt tctacatgtt cttcccat 360

gattgtgggtt tccatcacct atgggagctg tatttttcac tacatcaaac cttcagcgaa 420
 ggaaggggta gccatcaata aggttgatc tgtggtcaca acatcagtcg cccctttgct 480
 c 481

<210> 20
 <211> 160
 <212> PRT
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> Clone: J7

<400> 20

Ile	Cys	Lys	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Asn	Asn	Arg	Val	Cys	1	5	10	15
Thr	Val	Leu	Val	Leu	Ser	Cys	Trp	Phe	Ala	Gly	Leu	Leu	Ile	Ile	Leu	20	25	30	
Pro	Pro	Leu	Gly	His	Gly	Leu	Gln	Leu	Glu	Phe	Cys	Asp	Ser	Asn	Val	35	40	45	
Ile	Asp	His	Phe	Gly	Cys	Asp	Ala	Ser	Pro	Ile	Leu	Gln	Ile	Thr	Cys	50	55	60	
Ser	Asp	Thr	Val	Phe	Ile	Glu	Lys	Ile	Val	Leu	Ala	Phe	Ala	Ile	Leu	65	70	75	80
Thr	Leu	Ile	Ile	Thr	Leu	Val	Cys	Val	Val	Leu	Ser	Tyr	Thr	Tyr	Ile	85	90	95	
Ile	Lys	Thr	Ile	Leu	Lys	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	100	105	110	
Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	115	120	125	
Ser	Cys	Ile	Phe	Ile	Tyr	Ile	Lys	Pro	Ser	Ala	Lys	Glu	Gly	Val	Ala	130	135	140	
Ile	Asn	Lys	Val	Val	Ser	Val	Leu	Thr	Thr	Ser	Val	Ala	Pro	Leu	Leu	145	150	155	160

<210> 21
 <211> 481
 <212> DNA
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> n = any

<220>
 <221> misc_feature
 <223> Clone: J8

<400> 21
 catctgccac ccgctccact actctcttct catgagtoct gacaactgtg ctgctctggt 60
 aacagtctcc tgggtgacag ggggtgggcac gggcttctg ccttccctcc tgatttctaa 120
 gttggacttc tgtgggcca accgcatcaa ccatttcttc tgtgacctcc ctccattaat 180
 ccagctgtcc tgtctcagcg tctttgtgac agaaatggcc atctttgtcc tgtccatcgc 240
 tgtgctctgc atctgtttcc tcctaaccn nnnntcctac attttcatag tgcctccat 300
 tctgagaatc ccttccacta ccggcaggat gaagacattt tctacatgtg gctcccacct 360
 ggccgtggtc accatctact atgggacat gatctccatg tatgtcggcc caaatgcgca 420
 tctgtccccg gagctcaaca aggtcatttc tgtcttctac actgtgatca cccactact 480
 g 481

<210> 22
 <211> 160
 <212> PRT
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> x = any

<220>
 <221> misc_feature
 <223> Clone: J8

<400> 22

Ile Cys His Pro Leu His Tyr Ser Leu Leu Met Ser Pro Asp Asn Cys
 1 5 10 15
 Ala Ala Leu Val Thr Val Ser Trp Val Thr Gly Val Gly Thr Gly Phe
 20 25 30
 Leu Pro Ser Leu Leu Ile Ser Lys Leu Asp Phe Cys Gly Pro Asn Arg
 35 40 45
 Ile Asn His Phe Phe Cys Asp Leu Pro Pro Leu Ile Gln Leu Ser Cys
 50 55 60
 Ser Ser Val Phe Val Thr Glu Met Ala Ile Phe Val Leu Ser Ile Ala

65	70	75	80
Val Leu Cys Ile Cys Phe Leu Leu Thr Xaa Xaa Ser Tyr Ile Phe Ile			
85	90	95	
Val Ser Ser Ile Leu Arg Ile Pro Ser Thr Thr Gly Arg Met Lys Thr			
100	105	110	
Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Thr Ile Tyr Tyr Gly			
115	120	125	
Thr Met Ile Ser Met Tyr Val Gly Pro Asn Ala His Leu Ser Pro Glu			
130	135	140	
Leu Asn Lys Val Ile Ser Val Phe Tyr Thr Val Ile Thr Pro Leu Leu			
145	150	155	160

<210> 23
 <211> 646
 <212> DNA
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> n = any

<220>
 <221> misc_feature
 <223> Clone: J11

<400> 23	
ngtctgcttc tcctccacca ctgtcccca ggtactggct aaccacatac tcagtagtca	60
ggccatttcc ttctctgggt gtctaactca gctgtatttt ctctgtgtgt ctgtgaatat	120
ggacaatttc ctgctggctg tgatggccta tgacagattt gtggccatat gccacccttt	180
gtactacaca acaaagatga cccaccagct ctgtgtcttg ctggtgtctg gatcannnnn	240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgtgatca tggtcacccc	420
atttgtctgc atcctcatct cttacatcta catcaccaat gcagtcctca gagtctcatc	480
ctttagggga ggatggaaag ccttctccac ctgtggctca cacctggctg tggctctgct	540
cttctatggc accatcattg ctgtgtattt caatcctgta tcttcccatt catctgagaa	600
ggacactgca gcaactgtgc tatacacagt ggtgactccc atgttg	646

<210> 24

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<211> 215
<212> PRT
<213> Rattus sp.
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<220>  
<221> misc_feature  
<223> Clone: J11
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Val Cys Phe Ser Ser Thr Thr Val Pro Lys Val Leu Ala Asn His Ile
1 5 10 15

<210> 25
<211> 646
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature
<223> n = any

<220>
<221> misc_feature
<223> Clone: J14

<400> 25
tgtctgcttc tcctccacca ctgtccccaa ggtactggct aaccacatac tcagtagtca 60
ggccatttcc ttctctgggt gtctaactca gctgtatttt ctctgtgtgt ctgtgaatat 120
ggacaatttc ctgctggctg tgatggccta tgacagattt gtggccatat gccacccttt 180
gtactacaca acaccgatga cccaccagct ctgtgtcttg ctggtgtctg gatcannnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgtgatca tggtcacccc 420
atttgtctgc atcctcatct cttacatcta catcaccaat gcagtcctca gagtctcatc 480
ctttagggga ggatggaaag ccttctccac ctgtggctca cacctggctg tggctctgct 540
cttctatggc accatcattg ctgtgtattt caatcctgta tcttcccatt catctgagaa 600
ggacactgca gcaactgtgc tatacacagt ggtgactccc atgttg 646

<210> 26
<211> 215
<212> PRT
<213> Rattus sp.

<220>
<221> misc_feature
<223> x = any

<220>
<221> misc_feature
<223> Clone: J14

<400> 26

Val Cys Phe Ser Ser Thr Thr Val Pro Lys Val Leu Ala Asn His Ile
1 5 10 15
Leu Ser Ser Gln Ala Ile Ser Phe Ser Gly Cys Leu Thr Gln Leu Tyr
20 25 30
Phe Leu Cys Val Ser Val Asn Met Asp Asn Phe Leu Leu Ala Val Met
35 40 45
Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu Tyr Tyr Thr Thr
50 55 60
Pro Met Thr His Gln Leu Cys Val Leu Leu Val Ser Gly Ser Xaa Xaa
65 70 75 80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
100 105 110
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
115 120 125
Xaa Xaa Xaa Xaa Xaa Xaa Val Ile Met Val Thr Pro Phe Val Cys Ile
130 135 140
Leu Ile Ser Tyr Ile Tyr Ile Thr Asn Ala Val Leu Arg Val Ser Ser
145 150 155 160
Phe Arg Gly Gly Trp Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ala
165 170 175
Val Val Cys Leu Phe Tyr Gly Thr Ile Ile Ala Val Tyr Phe Asn Pro
180 185 190
Val Ser Ser His Ser Ser Glu Lys Asp Thr Ala Ala Thr Val Leu Tyr
195 200 205
Thr Val Val Thr Pro Met Leu
210 215

<210> 27
<211> 481
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature
<223> x = any

<220>
<221> misc_feature
<223> Clone: J15

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<400> 27
tatctgcaac cctctgcgct acccagtgt catgagcggc cgggtgtgcc tgetcatggt      60
cgtggcctcc tgggtgggag gatccctcaa cgcctccatt cagacttctc tgacccttca    120
gttcccttac tgtggatcac ggaagatctc ccacttcttc tgtgaggtgc cctcgctgct    180
gannntggcc tgtgcagaca ctgaagccta tgagcaggta ctatttgtga caggcgtggt    240
ggctctcttg gtgcccatta cattcattac tgctctttat gccctcatcc tggctgctgt    300
gctccgaatg cactctgcgg aggggagtc gaaggcccta gccacatgct cctctcacct    360
gacagtcgtc aatctcttct atgggcccct tgtctacacc tacatgttac ctgcttctca    420
tcactcacca ggccaagacg acatagtatc cgtcttttac accgttctca caccatgct    480
t                                                                           481

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<210> 28
<211> 160
<212> PRT
<213> Rattus sp.

<220>
<221> misc_feature
<223> x = any

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<220>
<221> misc_feature
<223> Clone: J15

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<400> 28

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Ile Cys Asn Pro Leu Arg Tyr Pro Val Leu Met Ser Gly Arg Val Cys
1           5           10           15
Leu Leu Met Val Val Ala Ser Trp Leu Gly Gly Ser Leu Asn Ala Ser
20           25           30
Ile Gln Thr Ser Leu Thr Leu Gln Phe Pro Tyr Cys Gly Ser Arg Lys
35           40           45
Ile Ser His Phe Phe Cys Glu Val Pro Ser Leu Leu Xaa Xaa Ala Cys
50           55           60
Ala Asp Thr Glu Ala Tyr Glu Gln Val Leu Phe Val Thr Gly Val Val
65           70           75           80
Val Leu Leu Val Pro Ile Thr Phe Ile Thr Ala Ser Tyr Ala Leu Ile
85           90           95
Leu Ala Ala Val Leu Arg Met His Ser Ala Glu Gly Ser Gln Lys Ala
100          105          110

```

Leu Ala Thr Cys Ser Ser His Leu Thr Val Val Asn Leu Phe Tyr Gly
 115 120 125

Pro Leu Val Tyr Thr Tyr Met Leu Pro Ala Ser Tyr His Ser Pro Gly
 130 135 140

Gln Asp Asp Ile Val Ser Val Phe Tyr Thr Val Leu Thr Pro Met Leu
 145 150 155 160

<210> 29
 <211> 481
 <212> DNA
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> Clone: J16

<400> 29
 catctgtagg cctcttcact atcctaccct catgaccag acactgtgtg ccaagattgc 60
 cactgggtgc tgggtgggag gcttggtgta gccagtggta gaaatttcct tgggtgtctcg 120
 tctccttttt tgtggcccca atcacattca acacatcttt tgtgatttcc cacctgtgct 180
 gagcttggtc tgtactgata catcagtga tgccttggtg gattttatta taaacctctg 240
 caagatcctg gccaccttcc tgctgacccg gagctcctac ttgcagataa tccgcacagt 300
 gctcaagatt ccttcagctg caggcaagaa gaaagcattc tcgacttggt cctcccatct 360
 cactgtgggt ctcattctct atgggagcat ccttttcatt tatgtgcggc tgaagaagac 420
 ttactccctt gactacgaca gagccttggc agtagtctac tccgtgggtta cccctttcct 480
 g 481

<210> 30
 <211> 160
 <212> PRT
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> Clone: J16

<400> 30

Ile Cys Arg Pro Leu His Tyr Pro Thr Leu Met Thr Gln Thr Leu Cys
 1 5 10 15

Ala Lys Ile Ala Thr Gly Cys Trp Leu Gly Gly Leu Ala Gly Pro Val
 20 25 30

Val	Glu	Ile	Ser	Leu	Val	Ser	Arg	Leu	Leu	Phe	Cys	Gly	Pro	Asn	His	
	35						40				45					
Ile	Gln	His	Ile	Phe	Cys	Asp	Phe	Pro	Pro	Val	Leu	Ser	Leu	Ala	Cys	
	50				55						60					
Thr	Asp	Thr	Ser	Val	Asn	Val	Leu	Val	Asp	Phe	Ile	Ile	Asn	Leu	Cys	
65				70					75					80		
Lys	Ile	Leu	Ala	Thr	Phe	Leu	Leu	Ile	Leu	Ser	Ser	Tyr	Leu	Gln	Ile	
			85					90						95		
Ile	Arg	Thr	Val	Leu	Lys	Ile	Pro	Ser	Ala	Ala	Gly	Lys	Lys	Lys	Ala	
			100				105							110		
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Leu	Ile	Phe	Tyr	Gly	
		115					120					125				
Ser	Ile	Leu	Phe	Met	Tyr	Val	Arg	Leu	Lys	Lys	Thr	Tyr	Ser	Leu	Asp	
	130					135					140					
Tyr	Asp	Arg	Ala	Leu	Ala	Val	Val	Tyr	Ser	Val	Val	Thr	Pro	Phe	Leu	
145				150				155							160	

<210> 31
 <211> 481
 <212> DNA
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> n = any

<220>
 <221> misc_feature
 <223> Clone: J17

<400> 31	
aatctgcaac ccaactgcttt attccaccaa aatgtccaca caagtctgta tccagttggt	60
tgcaggatct tatatagggg gttttcttaa tacttgcctc atcatgtttt actttttctc	120
ttttctcttc tgtgggcaaa ataatagttga tcattttttc tgtgattttg ctcccttnnt	180
ggaactttcg tgctctgatg tgagtgtctc tgtagttggt atgtcatttt ctgctggctc	240
agttactatg atcacagtgt ttatcatagc catctcctat tcttacatcc tcatcaccat	300
cctgaagatg tcttcaactg agggccgtca caaggctttc tccacatgta cctcccacct	360
cactgcagtc actctctact atggcaccat taccttcatt tatgtgatgc ccaagtccac	420
atactctaca gaccagaaca aggtgggtgct tgtgttttac atgggtgggtga tcccaatggt	480

<210> 32
<211> 160
<212> PRT
<213> Rattus sp.

<220>
<221> misc_feature
<223> x = any

<220>
<221> misc_feature
<223> Clone: J17

<400> 32

Ile Cys Asn Pro Leu Leu Tyr Ser Thr Lys Met Ser Thr Gln Val Cys
1 5 10 15
Ile Gln Leu Val Ala Gly Ser Tyr Ile Gly Gly Phe Leu Asn Thr Cys
20 25 30
Leu Ile Met Phe Tyr Phe Phe Ser Phe Leu Phe Cys Gly Pro Asn Ile
35 40 45
Val Asp His Phe Phe Cys Asp Phe Ala Pro Xaa Xaa Glu Leu Ser Cys
50 55 60
Ser Asp Val Ser Val Ser Val Val Val Met Ser Phe Ser Ala Gly Ser
65 70 75 80
Val Thr Met Ile Thr Val Phe Ile Ile Ala Ile Ser Tyr Ser Tyr Ile
85 90 95
Leu Ile Thr Ile Leu Lys Met Ser Ser Thr Glu Gly Arg His Lys Ala
100 105 110
Phe Ser Thr Cys Thr Ser His Leu Thr Ala Val Thr Leu Tyr Tyr Gly
115 120 125
Thr Ile Thr Phe Ile Tyr Val Met Pro Lys Ser Thr Tyr Ser Thr Asp
130 135 140
Gln Asn Lys Val Val Ser Val Phe Tyr Met Val Val Ile Pro Met Leu
145 150 155 160

<210> 33
<211> 479
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature

<223> Clone: J19

<400> 33

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tatctgccac cctctgaagt acacagttat catgaatcac tatttttgtg tgatgctgct      60
gctcttctct gtgttcgta gcattgcaca tgcgttggtc cacattttta tgggtgttgat    120
actgactttc agcacaaaaa ctgaaatccc tcaactttttc tgtgagctgg ctcatatcat    180
caaacttacc tgttccgata attttatcaa ctatctgctg atatacacag agtctgtctt     240
attttttggg gttcatattg tagggatcat tttgtcttat atttacactg taccctcagt     300
tttaagaatg tcattattgg gaggaatgta taaagccttt tcaacatgtg gatctcattt     360
gtcggttgtc tctgttttat ggcacagggt ttgggggtaca cataagctct ccacttactg    420
actctccaag gaagactgta gtggcttcag tgatgtacac tgtggttact cagatgctg     479
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<210> 34

<211> 139

<212> PRT

<213> Rattus sp.

<220>

<221> misc_feature

<223> Clone: J19

<400> 34

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Ile Cys His Pro Leu Lys Tyr Thr Val Ile Met Asn His Tyr Phe Cys
1           5           10           15
Val Met Leu Leu Leu Phe Ser Val Phe Val Ser Ile Ala His Ala Leu
20          25          30
Phe His Ile Leu Met Val Leu Ile Leu Thr Phe Ser Thr Lys Thr Glu
35          40          45
Ile Pro His Phe Phe Cys Glu Leu Ala His Ile Ile Lys Leu Thr Cys
50          55          60
Ser Asp Asn Phe Ile Asn Tyr Leu Leu Ile Tyr Thr Glu Ser Val Leu
65          70          75          80
Phe Phe Gly Val His Ile Val Gly Ile Ile Leu Ser Tyr Ile Tyr Thr
85          90          95
Val Ser Ser Val Leu Arg Met Ser Leu Leu Gly Gly Met Tyr Lys Ala
100         105         110
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Val Leu Trp His
115        120        125
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Arg Phe Trp Gly Thr His Lys Leu Ser Thr Tyr
 130 135

<210> 35
 <211> 481
 <212> DNA
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> n = any

<220>
 <221> misc_feature
 <223> Clone: J20

<400> 35
 aatctgctac ccactgaggt accttctcat catgagctgg gtggtgtgca cagcactgtc 60
 cgtggcaatc tgggtcatag gcttttgtgc ctccgttata cctctctgct tcacgatoct 120
 cccactctgt ggtccttacg tcgttgatta tcttttctgc gagctgccca tccttctgca 180
 cctgttctgc acagatacat ctctgctgga gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240
 nnnnnnnnnnn nnncccttcc tcctgattgt tctctcctac ctctgcaccc tgggtggtgt 300
 gataagaata gactcagctg agggcagaaa aaaggccttt tcaacttgtg cttcacactt 360
 ggctgtggtg accatctact atggaacagg gctgatcagg tacttgaggc ccaagtcctt 420
 ttattccgct gagggagaca gactgatctc tgtgttctat gcagtcattg gccctgcact 480
 g 481

<210> 36
 <211> 160
 <212> PRT
 <213> Rattus sp.

<220>
 <221> misc_feature
 <223> x = any

<220>
 <221> misc_feature
 <223> Clone: J20

<400> 36

Ile Cys Tyr Pro Leu Arg Tyr Leu Leu Ile Met Ser Trp Val Val Cys
 1 5 10 15

Thr Ala Leu Ser Val Ala Ile Trp Val Ile Gly Phe Cys Ala Ser Val
 20 25 30
 Ile Pro Leu Cys Phe Thr Ile Leu Pro Leu Cys Gly Pro Tyr Val Val
 35 40 45
 Asp Tyr Leu Phe Cys Glu Leu Pro Ile Leu Leu His Leu Phe Cys Thr
 50 55 60
 Asp Thr Ser Leu Leu Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 65 70 75 80
 Xaa Xaa Xaa Xaa Pro Phe Leu Leu Ile Val Leu Ser Tyr Leu Arg Ile
 85 90 95
 Leu Val Ala Val Ile Arg Ile Asp Ser Ala Glu Gly Arg Lys Lys Ala
 100 105 110
 Phe Ser Thr Cys Ala Ser His Leu Ala Val Val Thr Ile Tyr Tyr Gly
 115 120 125
 Thr Gly Leu Ile Arg Tyr Leu Arg Pro Lys Ser Leu Tyr Ser Ala Glu
 130 135 140
 Gly Asp Arg Leu Ile Ser Val Phe Tyr Ala Val Ile Gly Pro Ala Leu
 145 150 155 160

<210> 37
 <211> 35
 <212> DNA
 <213> artificial - primer

 <220>
 <221> misc_feature
 <223> n = any

<400> 37
 aattggatnc tngtnaatct ngcngtngcn gcnga

35

<210> 38
 <211> 32
 <212> DNA
 <213> artificial - primer

 <220>
 <221> misc_feature
 <223> n = any

<400> 38
 aattattttc tngtnaatct ngcnttngcn ga

32

<210> 39

<211> 32
<212> DNA
<213> artificial - primer

<220>
<221> misc_feature
<223> n = any

<400> 39
aatttnttta tnatntcnct ngcntgngcn ga

32

<210> 40
<211> 32
<212> DNA
<213> artificial - primer

<220>
<221> misc_feature
<223> n = any

<400> 40
cgnttnctna tgtgtaacct ntgctttgcn ga

32

<210> 41
<211> 32
<212> DNA
<213> artificial - primer

<220>
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<223> n = any

<400> 41
acngtntata tnacncatct nacnatngcn ga

32

<210> 42
<211> 33
<212> DNA
<213> artificial - primer

<220>
<221> misc_feature
<223> n = any

<400> 42
ctgncggttc atnaanacat anatnatngg gtt

33

<210> 43
<211> 31

<212> DNA
 <213> artificial - primer

 <220>
 <221> misc_feature
 <223> n = any

 <400> 43
 gatcggttnag acaacaatan atnatngggg t 31

 <210> 44
 <211> 32
 <212> DNA
 <213> artificial - primer

 <220>
 <221> misc_feature
 <223> n = any

 <400> 44
 tcnatgttaa angtngtata natnatnggg tt 32

 <210> 45
 <211> 32
 <212> DNA
 <213> artificial - primer

 <220>
 <221> misc_feature
 <223> n = any

 <400> 45
 gccttngtaa anantgcata naggaanggg tt 32

 <210> 46
 <211> 32
 <212> DNA
 <213> artificial - primer

 <220>
 <221> misc_feature
 <223> n = any

 <400> 46
 aaatcngggc tncgncaata natcannggg tt 32

 <210> 47
 <211> 32
 <212> DNA

<213> artificial - primer

<220>

<221> misc_feature

<223> n = any

<400> 47

ganganccna caaaaaaata nataaanggg tt

32

<210> 48

<211> 23

<212> DNA

<213> artificial - primer

<220>

<221> misc_feature

<223> n = any

<400> 48

atggcntatg atcgntatgt ngc

23

<210> 49

<211> 29

<212> DNA

<213> artificial - primer

<220>

<221> misc_feature

<223> n = any

<400> 49

aanagngana cnatnganag atgngancc

29

<210> 50

<211> 6

<212> PRT

<213> artificial - motif

<400> 50

Lys Ile Val Ser Ser Ile

1 5

<210> 51

<211> 6

<212> PRT

<213> artificial - motif

<400> 51

Arg Ile Val Ser Ser Ile

1 5
<210> 52
<211> 6
<212> PRT
<213> artificial - motif

<400> 52

His Ile Thr Cys Ala Val
1 5

<210> 53
<211> 6
<212> PRT
<213> artificial - motif

<400> 53

His Ile Thr Trp Ala Val
1 5

<210> 54
<211> 19
<212> PRT
<213> Rattus sp.

<400> 54

Leu Ser Lys Glu Asp Cys Ser Gly Phe Ser Asp Val His Cys Gly Tyr
1 5 10 15

Ser Asp Ala

<210> 55
<211> 9
<212> PRT
<213> Artificial - motif

<220>
<221> misc_feature
<223> x = any

<400> 55

Leu Xaa Xaa Pro Met Tyr Xaa Phe Leu
1 5

<210> 56
<211> 9
<212> PRT
<213> Artificial - motif

<220>
<221> x

<222> (2)..(2)
<223> H or Q

<220>
<221> x
<222> (3)..(3)
<223> K or M or T

<220>
<221> x
<222> (7)..(7)
<223> F or L

<400> 56

Leu Xaa Xaa Pro Met Tyr Xaa Phe Leu
1 5

<210> 57
<211> 10
<212> PRT
<213> Artificial - motif

<220>
<221> misc_feature
<223> x = any

<400> 57

Met Xaa Tyr Asp Arg Xaa Xaa Ala Ile Cys
1 5 10

<210> 58
<211> 10
<212> PRT
<213> Artificial - motif

<220>
<221> X
<222> (2)..(2)
<223> A or S

<220>
<221> X
<222> (6)..(6)
<223> F or Y

<220>
<221> X
<222> (7)..(7)
<223> L or V

<400> 58

Met Xaa Tyr Asp Arg Xaa Xaa Ala Ile Cys
1 5 10

<210> 59

<211> 7

<212> PRT

<213> Artificial - motif

<220>

<221> misc_feature

<223> x = any

<400> 59

Asp Arg Xaa Xaa Ala Ile Cys
1 5

<210> 60

<211> 7

<212> PRT

<213> Artificial - motif

<220>

<221> X

<222> (3)..(3)

<223> F or Y

<220>

<221> X

<222> (4)..(4)

<223> L or V

<400> 60

Asp Arg Xaa Xaa Ala Ile Cys
1 5

<210> 61

<211> 9

<212> PRT

<213> Artificial - motif

<220>

<221> misc_feature

<222> (2)..(2)

<223> x = any

<220>

<221> misc_feature

<222> (7)..(7)
<223> x = any

<220>
<221> misc_feature
<222> (1)..(1)
<223> K or R

<400> 61

Xaa Xaa Phe Ser Thr Cys Xaa Ser His
1 5

<210> 62
<211> 9
<212> PRT
<213> Artificial - motif

<220>
<221> X
<222> (1)..(1)
<223> K or R

<220>
<221> X
<222> (2)..(2)
<223> A or I or S or V

<220>
<221> X
<222> (7)..(7)
<223> A or G or S

<400> 62

Xaa Xaa Phe Ser Thr Cys Xaa Ser His
1 5

<210> 63
<211> 7
<212> PRT
<213> Artificial - motif

<220>
<221> misc_feature
<223> x = any

<400> 63

Phe Ser Thr Cys Xaa Ser His
1 5

<210> 64
<211> 7
<212> PRT
<213> Artificial - motif

<220>
<221> X
<222> (5)..(5)
<223> A or G or S

<400> 64

Phe Ser Thr Cys Xaa Ser His
1 5

<210> 65
<211> 12
<212> PRT
<213> Artificial - motif

<220>
<221> misc_feature
<223> x = any

<400> 65

Pro Xaa Xaa Asn Pro Xaa Ile Tyr Xaa Leu Arg Asn
1 5 10

<210> 66
<211> 12
<212> PRT
<213> Artificial - motif

<220>
<221> X
<222> (2)..(2)
<223> M or L or V

<220>
<221> X
<222> (3)..(3)
<223> F or L or V

<220>
<221> X
<222> (6)..(6)
<223> F OR I

<220>
<221> X

<222> (9)..(9)
<223> C or S or T

<400> 66

Pro Xaa Xaa Asn Pro Xaa Ile Tyr Xaa Leu Arg Asn
1 5 10

<210> 67
<211> 8
<212> PRT
<213> Artificial - motif

<220>
<221> misc_feature
<223> x = any

<400> 67

Pro Xaa Xaa Asn Pro Xaa Ile Tyr
1 5

<210> 68
<211> 8
<212> PRT
<213> Artificial - motif

<220>
<221> x
<222> (2)..(2)
<223> M or L or V

<220>
<221> x
<222> (3)..(3)
<223> F or L or V

<220>
<221> x
<222> (6)..(6)
<223> F or I

<400> 68

Pro Xaa Xaa Asn Pro Xaa Ile Tyr
1 5

<210> 69
<211> 9
<212> PRT
<213> Artificial - motif

<220>
<221> misc_feature
<223> x = any

<400> 69

Asn Pro Xaa Ile Tyr Xaa Leu Arg Asn
1 5

<210> 70
<211> 9
<212> PRT
<213> Artificial - motif

<220>
<221> X
<222> (3)..(3)
<223> F or I

<220>
<221> X
<222> (6)..(6)
<223> C or S or T

<400> 70

Asn Pro Xaa Ile Tyr Xaa Leu Arg Asn
1 5

<210> 71
<211> 333
<212> PRT
<213> Rattus sp.

<220>
<221> misc_feature
<223> Clone: F3

<400> 71

Met Asp Ser Ser Asn Arg Thr Arg Val Ser Glu Phe Leu Leu Leu Gly
1 5 10 15

Phe Val Glu Asn Lys Asp Leu Gln Pro Leu Ile Tyr Gly Leu Phe Leu
20 25 30

Ser Met Tyr Leu Val Thr Val Ile Gly Asn Ile Ser Ile Ile Val Ala
35 40 45

Ile Ile Ser Asp Pro Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50 55 60

Asn Leu Ser Phe Val Asp Ile Cys Phe Ile Ser Thr Thr Val Pro Lys

65	70	75	80
Met Leu Val Asn Ile Gln Thr Gln Asn Asn Val Ile Thr Tyr Ala Gly	85	90	95
Cys Ile Thr Gln Ile Tyr Phe Phe Leu Leu Phe Val Glu Leu Asp Asn	100	105	110
Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His	115	120	125
Pro Met His Tyr Thr Val Ile Met Asn Tyr Lys Leu Cys Gly Phe Leu	130	135	140
Val Leu Val Ser Trp Ile Val Ser Val Leu His Ala Leu Phe Gln Ser	145	150	155
Leu Met Met Leu Ala Leu Pro Phe Cys Thr His Leu Glu Ile Pro His	165	170	175
Tyr Phe Cys Glu Pro Asn Gln Val Ile Gln Leu Thr Cys Ser Asp Ala	180	185	190
Phe Leu Asn Asp Leu Val Ile Tyr Phe Thr Leu Val Leu Leu Ala Thr	195	200	205
Val Pro Leu Ala Gly Ile Phe Tyr Ser Tyr Phe Lys Ile Val Ser Ser	210	215	220
Ile Cys Ala Ile Ser Ser Val His Gly Lys Tyr Lys Ala Phe Ser Thr	225	230	235
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr Gly Leu	245	250	255
Gly Val Tyr Leu Ser Ser Ala Ala Asn Asn Ser Ser Gln Ala Ser Ala	260	265	270
Thr Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Val Asn Pro Phe	275	280	285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ser Val Leu Lys Lys Thr	290	295	300
Leu Cys Glu Glu Val Ile Arg Ser Pro Pro Ser Leu Leu His Phe Phe	305	310	315
Leu Val Leu Cys His Leu Pro Cys Phe Ile Phe Cys Tyr	325	330	

<210> 72
 <211> 313
 <212> PRT
 <213> Rattus sp.

 <220>
 <221> misc_feature

<223> Clone: F5

<400> 72

Met	Ser	Ser	Thr	Asn	Gln	Ser	Ser	Val	Thr	Glu	Phe	Leu	Leu	Leu	Gly	
1				5					10						15	
Leu	Ser	Arg	Gln	Pro	Gln	Gln	Gln	Gln	Leu	Leu	Phe	Leu	Leu	Phe	Leu	
			20					25					30			
Ile	Met	Tyr	Leu	Ala	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala	
		35					40					45				
Ile	Gly	Thr	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	
	50					55					60					
Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Ser	Ser	Thr	Thr	Val	Pro	Lys	
65					70					75					80	
Val	Leu	Ala	Asn	His	Ile	Leu	Gly	Ser	Gln	Ala	Ile	Ser	Phe	Ser	Gly	
				85					90					95		
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Leu	Ala	Val	Phe	Gly	Asn	Met	Asp	Asn	
			100					105					110			
Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	
			115				120					125				
Pro	Leu	His	Tyr	Thr	Thr	Lys	Met	Thr	Arg	Gln	Leu	Cys	Val	Leu	Leu	
	130					135					140					
Val	Val	Gly	Ser	Trp	Val	Val	Ala	Asn	Met	Asn	Cys	Leu	Leu	His	Ile	
145					150					155					160	
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Met	Ile	Pro	His	
				165					170					175		
Phe	Phe	Cys	Asp	Gly	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	
			180					185					190			
His	Leu	Asn	Glu	Leu	Met	Ile	Leu	Thr	Glu	Gly	Ala	Val	Val	Met	Val	
		195					200					205				
Thr	Pro	Phe	Val	Cys	Ile	Leu	Ile	Ser	Tyr	Ile	His	Ile	Thr	Cys	Ala	
	210					215					220					
Val	Leu	Arg	Val	Ser	Ser	Pro	Arg	Gly	Gly	Trp	Lys	Ser	Phe	Ser	Thr	
225					230					235					240	
Cys	Gly	Ser	His	Leu	Ala	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Val	Ile	
				245					250					255		
Ala	Val	Tyr	Phe	Asn	Pro	Ser	Ser	Ser	His	Leu	Ala	Gly	Arg	Asp	Met	
			260					265					270			
Ala	Ala	Ala	Val	Met	Tyr	Ala	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	

275

280

285

Ile Tyr Ser Leu Arg Asn Ser Asp Met Lys Ala Ala Leu Arg Lys Val
 290 295 300

Leu Ala Met Arg Phe Pro Ser Lys Gln
 305 310

<210> 73

<211> 311

<212> PRT

<213> Rattus sp

<220>

<221> misc_feature

<223> Clone: F6

<400> 73

Met Ala Trp Ser Thr Gly Gln Asn Leu Ser Thr Pro Gly Pro Phe Ile
 1 5 10 15

Leu Leu Gly Phe Pro Gly Pro Arg Ser Met Arg Ile Gly Leu Phe Leu
 20 25 30

Leu Phe Leu Val Met Tyr Leu Leu Thr Val Val Gly Asn Leu Ala Ile
 35 40 45

Ile Ser Leu Val Gly Ala His Arg Cys Leu Gln Thr Pro Met Tyr Phe
 50 55 60

Phe Leu Cys Asn Leu Ser Phe Leu Glu Ile Trp Phe Thr Thr Ala Cys
 65 70 75 80

Val Pro Lys Thr Leu Ala Thr Phe Ala Pro Arg Gly Gly Val Ile Ser
 85 90 95

Leu Ala Gly Cys Ala Thr Gln Met Tyr Phe Val Phe Ser Leu Gly Cys
 100 105 110

Thr Glu Tyr Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Leu Ala
 115 120 125

Ile Cys Leu Pro Leu Arg Tyr Gly Gly Ile Met Thr Pro Gly Leu Ala
 130 135 140

Met Arg Leu Ala Leu Gly Ser Trp Leu Cys Gly Phe Ser Ala Ile Thr
 145 150 155 160

Val Pro Ala Thr Leu Ile Ala Arg Leu Ser Phe Cys Gly Ser Arg Val
 165 170 175

Ile Asn His Phe Phe Cys Asp Ile Ser Pro Trp Ile Val Leu Ser Cys
 180 185 190

Thr Asp Thr Gln Val Val Glu Leu Val Ser Phe Gly Ile Ala Phe Cys

195	200	205
Val Ile Leu Gly Ser Cys Gly Ile Thr Leu Val Ser Tyr Ala Tyr Ile 210 215 220		
Ile Thr Thr Ile Ile Lys Ile Pro Ser Ala Arg Gly Arg His Arg Ala 225 230 235 240		
Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Leu Ile Trp Tyr Gly 245 250 255		
Ser Thr Ile Phe Leu His Val Arg Thr Ser Val Glu Ser Ser Leu Asp 260 265 270		
Leu Thr Lys Ala Ile Thr Val Leu Asn Thr Ile Val Thr Pro Val Leu 275 280 285		
Asn Pro Phe Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Glu Ala Leu 290 295 300		
Arg Arg Thr Val Lys Gly Lys 305 310		

<210> 74
 <211> 317
 <212> PRT
 <213> Rattus sp

<220>
 <221> misc_feature
 <223> Clone: F12

<400> 74

Met Glu Ser Gly Asn Ser Thr Arg Arg Phe Ser Ser Phe Phe Leu Leu 1 5 10 15
Gly Phe Thr Glu Asn Pro Gln Leu His Phe Leu Ile Phe Ala Leu Phe 20 25 30
Leu Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Met 35 40 45
Ala Ile Ile Thr Gln Ser His Leu His Thr Pro Met Tyr Phe Phe Leu 50 55 60
Ala Asn Leu Ser Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Ile Pro 65 70 75 80
Lys Met Leu Val Asn Ile Tyr Thr Gln Ser Lys Ser Ile Thr Tyr Glu 85 90 95
Asp Cys Ile Ser Gln Met Cys Val Phe Leu Val Phe Ala Glu Leu Gly 100 105 110
Asn Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Asn Cys

115	120	125
His Pro Leu Cys Tyr Thr Val Ile Val Asn His Arg Leu Cys Ile Leu 130 135 140		
Leu Leu Leu Leu Ser Trp Val Ile Ser Ile Phe His Ala Phe Ile Gln 145 150 155 160		
Ser Leu Ile Val Leu Gln Leu Thr Phe Cys Gly Asp Val Lys Ile Pro 165 170 175		
His Phe Phe Cys Glu Leu Asn Gln Leu Ser Gln Leu Thr Cys Ser Asp 180 185 190		
Asn Phe Pro Ser His Leu Ile Met Asn Leu Val Pro Val Met Leu Ala 195 200 205		
Ala Ile Ser Phe Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser 210 215 220		
Ser Ile His Ser Ile Ser Thr Val Gln Gly Lys Tyr Lys Ala Phe Ser 225 230 235 240		
Thr Cys Ala Ser His Leu Ser Ile Val Ser Leu Phe Tyr Ser Thr Gly 245 250 255		
Leu Gly Val Tyr Val Ser Ser Ala Val Val Gln Ser Ser His Ser Ala 260 265 270		
Ala Ser Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro 275 280 285		
Phe Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Arg Ala Leu Glu Arg 290 295 300		
Leu Leu Glu Gly Asn Cys Lys Val His His Trp Thr Gly 305 310 315		

<210> 75
 <211> 310
 <212> PRT
 <213> Rattus sp

<220>
 <221> misc_feature
 <223> Clone: I3

<400> 75

Met Asn Asn Gln Thr Phe Ile Thr Gln Phe Leu Leu Leu Gly Leu Pro 1 5 10 15
Ile Pro Glu Glu His Gln His Leu Phe Tyr Ala Leu Phe Leu Val Met 20 25 30
Tyr Leu Thr Thr Ile Leu Gly Asn Leu Leu Ile Ile Val Leu Val Gln

35					40					45					
Leu	Asp	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser	Asn	Leu
50						55				60					
Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys	Leu	Leu
65				70						75				80	
Gln	Asn	Met	Arg	Ser	Gln	Asp	Thr	Ser	Ile	Pro	Tyr	Gly	Gly	Cys	Leu
				85					90					95	
Ala	Gln	Thr	Tyr	Phe	Phe	Met	Val	Phe	Gly	Asp	Met	Glu	Ser	Phe	Leu
			100					105					110		
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu
	115						120					125			
His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Thr	Cys	Leu	Val	Leu
	130					135					140				
Leu	Leu	Trp	Met	Leu	Thr	Thr	Ser	His	Ala	Met	Met	His	Thr	Leu	Leu
145				150						155				160	
Ala	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asn	Asn	Val	Val	Leu	Asn	Phe	Phe
			165					170						175	
Cys	Asp	Leu	Phe	Val	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr	Ile
		180					185						190		
Asn	Glu	Leu	Met	Ile	Phe	Ile	Met	Ser	Thr	Leu	Leu	Ile	Ile	Ile	Pro
	195						200					205			
Phe	Phe	Leu	Ile	Val	Met	Ser	Tyr	Ala	Arg	Ile	Ile	Ser	Ser	Ile	Leu
	210					215					220				
Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	Cys	Lys	Val	Phe	Ser	Thr	Cys	Gly
225				230						235				240	
Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly	Leu
			245					250						255	
Tyr	Leu	Cys	Pro	Ala	Gly	Asn	Asn	Ser	Thr	Val	Lys	Glu	Met	Val	Met
			260					265					270		
Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
	275						280					285			
Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Arg	Ala	Leu	Ile	Arg	Val	Ile	Cys
	290					295					300				
Ser	Met	Lys	Ile	Thr	Leu										
305				310											

<210> 76

<211> 327

<212> PRT

<213> Rattus sp

<220>
<221> misc_feature
<223> Clone: I7

<400> 76

Met	Glu	Arg	Arg	Asn	His	Ser	Gly	Arg	Val	Ser	Glu	Phe	Val	Leu	Leu	
1				5					10					15		
Gly	Phe	Pro	Ala	Pro	Ala	Pro	Leu	Arg	Val	Leu	Leu	Phe	Phe	Leu	Ser	
			20					25					30			
Leu	Leu	Asp	Tyr	Val	Leu	Val	Leu	Thr	Glu	Asn	Met	Leu	Ile	Ile	Ile	
		35					40					45				
Ala	Ile	Arg	Asn	His	Pro	Thr	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	
	50					55					60					
Ala	Asn	Met	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Val	Thr	Ile	Pro	
65					70					75					80	
Lys	Met	Leu	Ala	Gly	Phe	Ile	Gly	Ser	Lys	Glu	Asn	His	Gly	Gln	Leu	
				85					90					95		
Ile	Ser	Phe	Glu	Ala	Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Gly	Leu	
			100					105					110			
Gly	Cys	Thr	Glu	Cys	Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	
		115					120						125			
Val	Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Pro	Val	Ile	Val	Ser	Ser	Arg	
	130					135					140					
Leu	Cys	Val	Gln	Met	Ala	Ala	Gly	Ser	Trp	Ala	Gly	Gly	Phe	Gly	Ile	
145					150					155					160	
Ser	Met	Val	Lys	Val	Phe	Leu	Ile	Ser	Arg	Leu	Ser	Tyr	Cys	Gly	Pro	
			165						170					175		
Asn	Thr	Ile	Asn	His	Phe	Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Asn	Leu	
			180					185					190			
Ser	Cys	Thr	Asp	Met	Ser	Thr	Ala	Glu	Leu	Thr	Asp	Phe	Val	Leu	Ala	
		195					200					205				
Ile	Phe	Ile	Leu	Leu	Gly	Pro	Leu	Ser	Val	Thr	Gly	Ala	Ser	Tyr	Met	
	210					215					220					
Ala	Ile	Thr	Gly	Ala	Val	Met	Arg	Ile	Pro	Ser	Ala	Ala	Gly	Arg	His	
225					230					235					240	
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ile	Ile	Phe	
			245						250					255		
Tyr	Ala	Ala	Ser	Ile	Phe	Ile	Tyr	Ala	Arg	Pro	Lys	Ala	Leu	Ser	Ala	

260 265 270
 Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile Val Pro
 275 280 285
 Leu Phe Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Asp Val Lys Arg
 290 295 300
 Ala Leu Arg Arg Thr Leu His Leu Ala Gln Asp Gln Glu Ala Asn Thr
 305 310 315 320
 Asn Lys Gly Ser Lys Ile Gly
 325

<210> 77
 <211> 312
 <212> PRT
 <213> Rattus sp

<220>
 <221> misc_feature
 <223> Clone: I8

<400> 77

Met Asn Asn Lys Thr Val Ile Thr His Phe Leu Leu Leu Gly Leu Pro
 1 5 10 15
 Ile Pro Pro Glu His Gln Gln Leu Phe Phe Ala Leu Phe Leu Ile Met
 20 25 30
 Tyr Leu Thr Thr Phe Leu Gly Asn Leu Leu Ile Val Val Leu Val Gln
 35 40 45
 Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser Asn Leu
 50 55 60
 Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Leu Lys Leu Leu
 65 70 75 80
 Gln Asn Ile Gln Ser Gln Val Pro Ser Ile Ser Tyr Ala Gly Cys Leu
 85 90 95
 Thr Gln Ile Phe Phe Phe Leu Leu Phe Gly Tyr Leu Gly Asn Phe Leu
 100 105 110
 Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu
 115 120 125
 His Tyr Thr Asn Ile Met Ser His Lys Leu Cys Thr Cys Leu Leu Leu
 130 135 140
 Val Phe Trp Ile Met Thr Ser Ser His Ala Met Met His Thr Leu Leu
 145 150 155 160
 Ala Ala Arg Leu Ser Phe Cys Glu Asn Asn Val Leu Leu Asn Phe Phe

165										170					175				
Cys	Asp	Leu	Phe	Val	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr	Val				
			180					185						190					
Asn	Glu	Leu	Met	Ile	His	Ile	Met	Gly	Val	Ile	Ile	Ile	Val	Ile	Pro				
		195					200					205							
Phe	Val	Leu	Ile	Val	Ile	Ser	Tyr	Ala	Lys	Ile	Ile	Ser	Ser	Ile	Leu				
		210				215						220							
Lys	Val	Pro	Ser	Thr	Gln	Ser	Ile	His	Lys	Val	Phe	Ser	Thr	Cys	Gly				
225					230					235					240				
Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly	Leu				
				245					250					255					
Tyr	Leu	Cys	Pro	Ser	Gly	Asp	Asn	Phe	Ser	Leu	Lys	Gly	Ser	Ala	Met				
			260					265					270						
Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr				
		275					280					285							
Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gln	Ala	Leu	Ile	Arg	Val	Thr	Cys				
		290				295					300								
Ser	Lys	Lys	Ile	Ser	Leu	Pro	Trp												
305					310														

<210> 78
 <211> 314
 <212> PRT
 <213> Rattus sp

<220>
 <221> misc_feature
 <223> Clone: I9

<400> 78

Met	Thr	Arg	Arg	Asn	Gln	Thr	Ala	Ile	Ser	Gln	Phe	Phe	Leu	Leu	Gly			
1				5					10					15				
Leu	Pro	Phe	Pro	Pro	Glu	Tyr	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu			
			20					25					30					
Ala	Met	Tyr	Leu	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu			
		35					40					45						
Ile	Leu	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser			
		50				55					60							
Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys			
65					70					75					80			
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly			

85					90					95					
Cys	Leu	Ala	Gln	Ile	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Leu	Gly	Asn
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
			115					120					125		
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Val	Ser	Leu
			130					135					140		
Val	Val	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His	Thr
			145					150					155		
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Ser	Val	Ile	Pro	His
				165					170					175	
Tyr	Phe	Cys	Asp	Met	Ser	Thr	Leu	Leu	Lys	Val	Ala	Cys	Ser	Asp	Thr
			180					185					190		
His	Asp	Asn	Glu	Leu	Ala	Ile	Phe	Ile	Leu	Gly	Gly	Pro	Ile	Val	Val
			195					200					205		
Leu	Pro	Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ser
			210					215					220		
Ile	Phe	Lys	Val	Pro	Ser	Ser	Gln	Ser	Ile	His	Lys	Ala	Phe	Ser	Thr
			225					230					235		240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val	Ile
				245					250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Val	Lys	Glu	Thr
			260					265					270		
Val	Met	Ser	Leu	Met	Tyr	Thr	Met	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
			275					280					285		
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Asp	Ala	Leu	Glu	Lys	Ile
			290					295					300		
Met	Cys	Lys	Lys	Gln	Ile	Pro	Ser	Phe	Leu						
			305					310							

<210> 79
 <211> 312
 <212> PRT
 <213> Rattus sp

<220>
 <221> misc_feature
 <223> Clone: I14

<400> 79

Met Thr Gly Asn Asn Gln Thr Leu Ile Leu Glu Phe Leu Leu Leu Gly

[illegible]

305

310

<210> 80

<211> 314

<212> PRT

<213> Rattus sp

<220>

<221> misc_feature

<223> Clone: I15

<400> 80

Met	Thr	Glu	Glu	Asn	Gln	Thr	Val	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Phe
1				5					10					15	
Leu	Pro	Ile	Pro	Ser	Glu	His	Gln	His	Val	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Phe	Ala	Gly
				85					90					95	
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Tyr	Leu	Tyr	Phe	Ala	Asp	Leu	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Val	Ser	Leu
	130					135					140				
Val	Val	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His	Thr
145					150					155					160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Met	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
		180						185					190		
His	Val	Asn	Glu	Leu	Val	Ile	Phe	Val	Met	Gly	Gly	Leu	Val	Ile	Val
		195					200					205			
Ile	Pro	Phe	Val	Leu	Ile	Ile	Val	Ser	Tyr	Ala	Arg	Val	Val	Ala	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Val	Arg	Gly	Ile	His	Lys	Ile	Phe	Ser	Thr

225 230 235 240
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile
 245 250 255
 Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu Thr
 260 265 270
 Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Ile Arg Val
 290 295 300
 Leu Cys Lys Lys Lys Ile Thr Phe Cys Leu
 305 310

<210> 81
 <211> 44
 <212> PRT
 <213> Rattus sp

<400> 81

Arg Val Asn Glu Val Val Ile Phe Ile Val Val Ser Leu Phe Leu Val
 1 5 10 15
 Leu Pro Phe Ala Leu Ile Ile Met Ser Tyr Val Arg Ile Val Ser Ser
 20 25 30
 Ile Leu Lys Val Pro Ser Ser Gln Gly Ile Tyr Lys
 35 40

<210> 82
 <211> 44
 <212> PRT
 <213> Rattus sp.

<400> 82

Phe Leu Asn Asp Leu Val Ile Tyr Phe Thr Leu Val Leu Leu Ala Thr
 1 5 10 15
 Val Pro Leu Ala Gly Ile Phe Tyr Ser Tyr Phe Lys Ile Val Ser Ser
 20 25 30
 Ile Cys Ala Ile Ser Ser Val His Gly Lys Tyr Lys
 35 40

<210> 83
 <211> 44
 <212> PRT
 <213> Rattus sp.

<400> 83

His Leu Asn Glu Leu Met Ile Leu Thr Glu Gly Ala Val Val Met Val

1 5 10 15
 Thr Pro Phe Val Cys Ile Leu Ile Ser Tyr Ile His Ile Thr Cys Ala
 20 25 30

Val Leu Arg Val Ser Ser Pro Arg Gly Gly Trp Lys
 35 40

<210> 84
 <211> 44
 <212> PRT
 <213> Rattus sp.

<400> 84

Gln Val Val Glu Leu Val Ser Phe Gly Ile Ala Phe Cys Val Ile His
 1 5 10 15

Gly Ser Cys Gly Ile Thr Leu Val Ser Tyr Ala Tyr Ile Ile Thr Thr
 20 25 30

Ile Ile Lys Ile Pro Ser Ala Arg Gly Arg His Arg
 35 40

<210> 85
 <211> 44
 <212> PRT
 <213> Rattus sp.

<400> 85

His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Ile Ile Leu Val
 1 5 10 15

Ile Pro Phe Val Leu Ile Ile Val Ser Tyr Val Arg Ile Val Ser Ser
 20 25 30

Ile Leu Lys Val Pro Ser Ala Arg Gly Ile Arg Lys
 35 40

<210> 86
 <211> 44
 <212> PRT
 <213> Rattus sp.

<400> 86

Phe Pro Ser His Leu Thr Met His Leu Val Pro Val Ile Leu Ala Ala
 1 5 10 15

Ile Ser Leu Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser
 20 25 30

Ile Arg Ser Met Ser Ser Val Gln Gly Lys Tyr Lys
 35 40

<210> 87

<211> 44
<212> PRT
<213> Rattus sp.

<400> 87

Phe Pro Ser His Leu Ile Met Asn Leu Val Pro Val Met Leu Ala Ala
1 5 10 15

Ile Ser Phe Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser
20 25 30

Ile His Ser Ile Ser Thr Val Gln Gly Lys Tyr Lys
35 40

<210> 88
<211> 44
<212> PRT
<213> Rattus sp.

<400> 88

Phe Pro Ser His Leu Ile Met Asn Leu Val Pro Val Met Leu Ala Ala
1 5 10 15

Ile Ser Phe Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser
20 25 30

Ile Arg Ser Val Ser Ser Val Lys Gly Lys Tyr Lys
35 40

<210> 89
<211> 44
<212> PRT
<213> Rattus sp.

<400> 89

Phe Leu Asn Asp Val Ile Met Tyr Phe Ala Leu Val Leu Leu Ala Val
1 5 10 15

Val Pro Leu Leu Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Val Ser Ser
20 25 30

Ile Arg Ala Ile Ser Thr Val Gln Gly Lys Tyr Lys
35 40

<210> 90
<211> 44
<212> PRT
<213> Rattus sp.

<400> 90

His Glu Ile Glu Met Ile Ile Leu Val Leu Ala Ala Phe Asn Leu Ile
1 5 10 15

Ser Ser Leu Leu Val Val Leu Val Ser Tyr Leu Phe Ile Leu Ile Ala
20 25 30

Ile Leu Arg Met Asn Ser Ala Glu Gly Arg Arg Lys
35 40

<210> 91
<211> 44
<212> PRT
<213> Rattus sp.

<400> 91

Tyr Ile Asn Glu Leu Met Ile Phe Ile Met Ser Thr Leu Leu Ile Ile
1 5 10 15

Ile Pro Phe Phe Leu Ile Val Met Ser Tyr Ala Arg Ile Ile Ser Ser
20 25 30

Ile Leu Lys Val Pro Ser Thr Gln Gly Ile Cys Lys
35 40

<210> 92
<211> 44
<212> PRT
<213> Rattus sp.

<400> 92

Ser Thr Ala Glu Leu Thr Asp Phe Val Leu Ala Ile Phe Ile Leu Leu
1 5 10 15

Gly Pro Leu Ser Val Thr Gly Ala Ser Tyr Met Ala Ile Thr Gly Ala
20 25 30

Val Met Arg Ile Pro Ser Ala Ala Gly Arg His Lys
35 40

<210> 93
<211> 44
<212> PRT
<213> Rattus sp.

<400> 93

Tyr Val Asn Glu Leu Met Ile His Ile Met Gly Val Ile Ile Ile Val
1 5 10 15

Ile Pro Phe Val Leu Ile Val Ile Ser Tyr Ala Lys Ile Ile Ser Ser
20 25 30

Ile Leu Lys Val Pro Ser Thr Gln Ser Ile His Lys
35 40

<210> 94
<211> 44
<212> PRT

<213> Rattus sp.

<400> 94

His Asp Asn Glu Leu Ala Ile Phe Ile Leu Gly Gly Pro Ile Val Val
1 5 10 15

Leu Pro Phe Leu Leu Ile Ile Val Ser Tyr Ala Arg Ile Val Ser Ser
20 25 30

Ile Phe Lys Val Pro Ser Ser Gln Ser Ile His Lys
35 40

<210> 95

<211> 44

<212> PRT

<213> Rattus sp.

<400> 95

His Leu Asn Glu Leu Met Ile Leu Thr Glu Gly Ala Val Val Met Val
1 5 10 15

Thr Pro Phe Val Cys Ile Leu Ile Ser Tyr Ile His Ile Thr Trp Ala
20 25 30

Val Leu Arg Val Ser Ser Pro Arg Gly Gly Trp Lys
35 40

<210> 96

<211> 44

<212> PRT

<213> Rattus sp.

<400> 96

Phe Pro Ser His Leu Ile Met Asn Leu Val Pro Val Met Leu Gly Ala
1 5 10 15

Ile Ser Leu Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser
20 25 30

Val Arg Ser Ile Ser Ser Val Gln Gly Lys His Lys
35 40

<210> 97

<211> 44

<212> PRT

<213> Rattus sp.

<400> 97

Tyr Val Asn Glu Leu Met Ile Tyr Ile Leu Gly Gly Leu Ile Ile Ile
1 5 10 15

Ile Pro Phe Leu Leu Ile Val Met Ser Tyr Val Arg Ile Phe Phe Ser
20 25 30

Ile Leu Lys Phe Pro Ser Ile Glx Asp Ile Tyr Lys
35 40

<210> 98

<211> 44

<212> PRT

<213> Rattus sp.

<400> 98

His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Leu Val Ile Val
1 5 10 15

Ile Pro Phe Val Leu Ile Ile Val Ser Tyr Ala Arg Val Val Ala Ser
20 25 30

Ile Leu Lys Val Pro Ser Val Arg Gly Ile His Lys
35 40